Full-Length

# CDK1 (Human) Recombinant Protein

Catalog # P9602 Size 20 ug

## Specification

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|---|---|
| **Product Description** | Human CDK1 (P06493, 1 a.a. - 297 a.a.) full recombinant protein with His tag at N-terminus expressed in *Escherichia coli*. |
| **Sequence** | MGSSHHHHHHSSGLVPRGSHMEDYTKIEKIGEGTYGVVYKGRHKTTGQVVAMKKIRLESEEEGVP STAIREISLLKELRHPNIVSLQDVLMQDSRLYLIFEFLSMDLKKYLDSIPPGQYMDSSLVKSYLYQILQ GIVFCHSRRVLHRDLKPQNLLIDDKGTIKLADFGLARAFGIPIRVYTHEVVTLWYRSPEVLLGSARYS TPVDIWSIGTIFAELATKKPLFHGDSEIDQLFRIFRALGTPNNEVWPEVESLQDYKNTFPKWKPGSL ASHVKNLDENGLDLLSKMLIYDPAKRISGKMALNHPYFNDLDNQIKKM |
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | 36.2 |
| **Form** | Liquid |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purity** | > 85.0% by SDS-PAGE |
| **Recommend Usage** | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 20mM Tris-HCl pH 8.0 (10% glycerol) |
| **Storage Instruction** | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing. |

## Applications

- SDS-PAGE

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## Gene Info — CDC2

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|---|---|
| **Entrez GeneID** | 983 |
| **Protein Accession#** | P06493 |
| **Gene Name** | CDC2 |
| **Gene Alias** | CDC28A, CDK1, DKFZp686L20222, MGC111195 |
| **Gene Description** | cell division cycle 2, G1 to S and G2 to M |
| **Omim ID** | 116940 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting f actor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitot ic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phos phorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for thi s gene. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000019660\|cell cycle controller CDC2\|cell division control protein 2 homolog\|cell div ision cycle 2 protein\|cyclin-dependent kinase 1\|p34 protein kinase |

## Pathway

- Cell cycle
- Gap junction
- p53 signaling pathway

## Disease

- Alzheimer disease
- Breast cancer
- Breast Neoplasms
- Dementia

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- Genetic Predisposition to Disease
- Lung Neoplasms
- Pulmonary Disease

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